

**c. Amendments to Claims**

1. (Currently amended) A process for preparing optical fiber, comprising the steps  
step of:

drawing fiber from a preform comprising a silica body, and  
5 forming the body ~~formed~~ by a process including the step of, prior to sintering the  
body, treating the body at a temperature in the range of ~~ranging from~~ 300 to 900°C with a  
gaseous mixture comprising one or more non-oxygenated sulfur halides, and  
wherein the one or more sulfur halides are generated by reaction of sulfur present  
in the body with halides flowed over the body.

10 2. (Original) The process of claim 1, wherein the body is selected from an  
overcladding tube and a substrate tube.

15 3. (Original) The process of claim 2, wherein the body is formed by a sol-gel  
process.

4. (Currently amended) The process of claim 1, wherein the temperature of  
treatment is in the range of ~~ranges from~~ 400 to 800°C.

20 5. (Currently amended) The process of claim 4, wherein the temperature of  
treatment is in the range of ~~ranges from~~ 600 to 700°C.

25 6. (Original) The process of claim 1, wherein the treatment is performed for a  
period of at least one hour.

7. (Original) The process of claim 6, wherein the treatment is performed for a  
period of at least two hours.

30 8. (Original) The process of claim 1, wherein the one or more sulfur halides  
comprise one or more sulfur chlorides.

9. (Original) The process of claim 8, wherein the one or more sulfur chlorides comprise at least one of sulfur monochloride and sulfur dichloride.

10. (Original) The process of claim 1, wherein the gaseous mixture further  
5 comprises at least one of nitrogen, air, helium, neon, and argon.

11. (Cancelled)

12. (Original) The process of claim 1, wherein the treatment performs at least one  
10 of: reducing the size of at least a portion of refractory metal oxide particles in the body and reducing the concentration of refractory metal oxide particles in the body.

13. (Original) The process of claim 12, wherein the particles include at least one  
of chromia and zirconia.

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14. (Original) The process of claim 1, wherein the treatment reduces the concentration of water and hydroxyl groups in the body.

15. (Original) The process of claim 1, wherein the gaseous mixture comprises 0.1  
20 to 100 vol.% of the one or more sulfur halides.

16. (Original) The process of claim 15, wherein the gaseous mixture comprises about 6 to about 7 vol.% of the one or more sulfur halides.

17. (Original) The process of claim 1, wherein the body is subjected to a treatment  
25 with a gas comprising chlorine prior to the treatment with the one or more sulfur halides.

18. (Original) The process of claim 17, wherein the gaseous mixture comprising one or more sulfur halides comprises about 1 to about 2 vol.% of the one or more sulfur  
30 halides.

19. (Original) The process of claim 17, wherein the chlorine treatment reduces the concentration of water and hydroxyl groups in the body.

20. (Previously amended) The process of claim 17, wherein the chlorine treatment  
5 performs at least one of: reducing the size of at least a portion of chromia particles in the body and reducing the concentration of chromia particles in the body.

21. (Original) The process of claim 1, wherein the body is subjected to treatment with a gas comprising oxygen subsequent to the treatment with the one or more sulfur  
10 halides.

22. (Currently amended) A process for preparing optical fiber, comprising the steps ~~step~~ of:  
drawing fiber from a preform comprising a sol-gel silica tube, and  
15 forming the tube ~~formed~~ by a process including the step of, prior to sintering the tube, treating the tube at a temperature in the range of ~~ranging from~~ 300 to 900°C with a gaseous mixture comprising one or more non-oxygenated sulfur chlorides, and  
wherein the one or more sulfur chlorides are generated by reaction of sulfur present in the tube with chlorine flowed over the tube.

20 23. (Currently amended) The process of claim 22, wherein the temperature of treatment is in the range of ~~ranges from~~ 400 to 800°C.

24. (Currently amended) The process of claim 23, wherein the temperature of  
25 treatment is in the range of ~~ranges from~~ about 600 to about 700°C.

25. (Original) The process of claim 22, wherein the treatment is performed for a period of at least two hours.

30 26. (Original) The process of claim 22, wherein the one or more sulfur chlorides comprise at least one of sulfur monochloride and sulfur dichloride

27. (Cancelled)

28. (Original) The process of claim 22, wherein the treatment performs at least  
5 one of: reducing the size of at least a portion of refractory metal oxide particles in the  
tube and reducing the concentration of refractory metal oxide particles in the tube.

29. (Original) The process of claim 22, wherein the gaseous mixture comprises  
0.1 to 100 vol.% of the one or more sulfur chlorides.

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30. (Original) The process of claim 29, wherein the gaseous mixture comprises  
about 6 to about 7 vol.% of the one or more sulfur chlorides.

31. (Original) The process of claim 22, wherein the tube is subjected to a  
15 treatment with a gas comprising chlorine prior to the treatment with the one or more  
sulfur chlorides.

32. (Original) The process of claim 22, wherein the tube is subjected to treatment  
with a gas comprising oxygen subsequent to the treatment with the one or more sulfur  
20 chlorides.

33. (Previously amended) The process of claim 22, where the tube is selected  
from an overladding tube and a substrate tube.

25 34. (Currently amended) A process for preparing optical fiber, comprising the  
steps ~~step~~ of:  
drawing fiber from a preform comprising a sol-gel silica tube, and  
forming the tube ~~formed~~ by a process including the steps of, prior to sintering the tube:  
providing a silica dispersion,  
30 forming from the dispersion a gelled tube comprising refractory metal oxide  
particles,

heating the entire gelled tube to a temperature in the range of ~~ranging from~~ 400 to 800°C and,

while the gelled tube is at the temperature, treating the gelled tube with a gaseous mixture comprising one or more non-oxygenated sulfur halides, the treatment performed  
5 for a time period that provides sufficient diffusion of the one or more sulfur halides into the gelled tube such that at least one effect selected from the group consisting of reducing the size of at least a portion of the refractory metal oxide particles in the gelled tube and reducing the concentration of the refractory metal oxide particles in the gelled tube, is achieved.

10 35. (Currently amended) The process of claim 34, wherein the temperature of treatment is in the range of ~~ranges from~~ 600 to 700°C.

15 36. (Previously amended) The process of claim 34, wherein the time period is at least two hours.

37. (Previously amended) The process of claim 34, wherein the one or more sulfur halides comprises one or more sulfur chlorides.

20 38. (Previously amended) The process of claim 37, wherein the one or more sulfur chlorides comprise at least one compound selected from the group consisting of sulfur monochloride and sulfur dichloride.

25 39. (Previously amended) The process of claim 34, wherein the treatment reduces the size of at least a portion of the refractory metal oxide particles in the gelled tube, reduces the concentration of the refractory metal oxide particles in the gelled tube, or both reduces the size of at least a portion of the refractory metal oxide particles in the gelled tube and reduces the concentration of the refractory metal oxide particles in the gelled tube.

30 40. (Cancelled)

41. (Previously amended) The process of claim 37, wherein the gaseous mixture comprises about 6 to about 7 vol.% of the one or more sulfur chlorides.

5           42. (Previously amended) The process of claim 34, wherein the gelled tube includes chromia particles, wherein the gelled tube is subjected to a treatment with chlorine gas prior to the treatment with the one or more sulfur halides, and wherein the chlorine gas treatment performs at least one action selected from the group consisting of  
10       reducing the size of at least a portion of the chromia particles in the gelled tube and  
      reducing the concentration of the chromia particles in the gelled tube.

43. (Cancelled)

          44. (Previously amended) The process of claim 34, wherein the tube is an  
15   overcladding tube or a substrate tube.